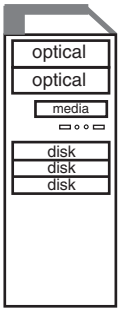
ThinkStation® S20 (4105) - TopSeller (Windows 7) - July 2011

Type-model	Slot x bay	Processor(s)	GHz	Core	Memory DIMMs	Disk(s)	Pre-conf RAID	SATA optical	1394 adptr	Media reader	Chassis intrusion switch	Graphics adapter(s)	Global	Win7 preload	Ann date (mm/dd/yy)
4105-3AU	5x6	W3503	2.40	2	1x2GB	1x500GB SATA	No	DVD±RW	No	Media	Switch	1xQuadro 600	No	Pro 64	07/19/11

- *Part of the US TopSeller™ Program*
- *Microsoft Office 2010 Product Key Ready (O10PKR)*

Processor	**Intel® Xeon® Processor W3503** with **dual-core**, 4.8GT/s (giga-transfers/second) QPI (QuickPath Interconnect), Intel 64, Virtualization Technology, 1066MHz DDR3 memory controller, and 4MB cache
Implementation	One LGA1366 socket
Memory	48GB max, **UDIMM**, **PC3-10600 1333MHz DDR3**, **ECC**, 3-channel capable, six 240-pin DIMM sockets
Additional memory disclaimers	• Actual memory operating speed is the lowest installed speed, dependent on processor memory controller speed and installed memory speed
Graphics	**NVIDIA® Quadro® 600**, PCIe x16 adapter, 1GB, one DisplayPort™, one dual-link DVI-I, 40W
Media reader	Media card reader, internal USB 2.0
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
Hard drive(s)	500GB, SATA 3.0Gb/s, 7200 rpm, 3.5"
SATA controller	Serial ATA, SATA 3.0Gb/s, integrated in ICH10R, three SATA connectors for disks, two SATA connectors for opticals
Chipset	**Intel X58 Express Chipset**, Intel I/O Controller Hub 10 RAID (ICH10R) for RAID 0, 1, 5 support, Winbond® W83627DHG-P Super I/O
Front ports	Two USB 2.0, microphone (3.5mm), headphone (3.5mm)
Rear ports	Eight USB 2.0, eSATA, serial (9-pin), ethernet (RJ-45), six analog audio ports (line-in, mic-in, front-out, rear-out, center/sub-out, side-out), Optical SPDIF digital out, Optical SPDIF digital in
IEEE 1394 adptr	None
Audio	High Definition (HD) Audio, Analog Devices AD1988A codec
Speaker	Internal speaker for business audio
Ethernet	One gigabit ethernet on planar, Broadcom® BCM5755
Security chip	Broadcom Trusted Platform Module, TCG 1.2-compliant
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black
Mouse	Optical Wheel Mouse (USB connector), black
Power supply	625 watts with 120mm bottom-mounted variable speed fan, universal, **Climate Savers® Computing Bronze**, **80 PLUS® Bronze** qualified
ThinkVantage®	Supports ThinkVantage technologies
Limited Warranty	3-year parts and labor, Customer Replaceable Unit (CRU) parts only (More ThinkPlus® services are available on S-TS sheet)
Preload OS	Genuine Windows® 7 Professional 64
Preloaded applications	• Rescue and Recovery® • ThinkVantage System Update • ThinkVantage Toolbox • Norton® Internet Security (30 days of virus definitions) • Adobe® Reader® • Adobe Flash® Player • Microsoft® Office 2010 preloaded; purchase product key to activate • Roxio® Creator® Business Edition (DVD±RW model(s) only) • Roxio MyDVD® (DVD±RW model(s) only) • Corel® WinDVD® (DVD and DVD±RW model(s) only) • Ulead® DVD MovieFactory® (Blu-ray model(s) only)

Tower



- Raven black color; metal case
- 6.9"W x 19.0"D x 18.8"H (with handle)
- 175mm W x 483mm D x 478mm H
- 38.5 lb (17.5kg) max configuration
- 31-liter
- Removable handle on top front
- Toolless side cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons
- Rack shelf support

Bay 1: 5.25", 1.6" high, external, std optical
Bay 2: 5.25", 1.6" high, external, open
Bay 3: 3.5", 1" high, external, std media reader
Bay 4: 3.5", 1" high, internal, std disk
Bay 5: 3.5", 1" high, internal, opt disk
Bay 6: 3.5", 1" high, internal, opt disk

Slot 1: full-length, full-height, PCIe 2.0 x16 (75W* max)
Slot 2: full-length, full-height, PCIe 2.0 x4**
Slot 3: full-length, full-height, PCIe 2.0 x16 (75W* max)
Slot 4: full-length, full-height, PCIe x1
Slot 5: half-length, full-height, 32-bit PCI 2.3

* Adapters >75W use auxiliary power connector(s) from PSU
** x16 mechanical

SECURITY

- Security chip (see information on left)
- Side cover lock (ships with two identical keys)
- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® Microsaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard, mouse
- USB port disablement (front or all)
- *Chassis intrusion switch on selected model(s)*

GREENGUARD® certified
RoHS-compliant
EPEAT™ Gold rating

More compatible accessories, please see O-SEV sheet

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